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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/876,348	06/07/2001	Kathleen L. Horwath	RB-125 RI 9095		
41245	7590 05/11/2005		EXAMINER		
	YY & ASSOCIATES, PLL DING, SUITE 902	ROBINSON	ROBINSON, HOPE A		
19 CHENAN	•		ART UNIT PAPER NUMBE		
BINGHAMT	ON, NY 13901		1653		
			DATE MAILED: 05/11/2004	DATE MAIL ED: 05/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		42	1 4 1 4 1				
	Аррис	ation No.	Applicant(s)				
Office Antique Comments		3,348	HORWATH ET AL.				
Office Action Summar	Exami	ner	Art Unit				
		A. Robinson	1653				
The MAILING DATE of this com Period for Reply	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMM - Extensions of time may be available under the provafter SIX (6) MONTHS from the mailing date of this - If the period for reply specified above, the maxim - Failure to reply within the set or extended period for Any reply received by the Office later than three me earned patent term adjustment. See 37 CFR 1.704	MUNICATION. risions of 37 CFR 1.136(a). In no communication. hirty (30) days, a reply within the aum statutory period will apply an reply will, by statute, cause the onths after the mailing date of this	o event, however, may a reply be statutory minimum of thirty (30) d will expire SIX (6) MONTHS fr application to become ABANDO	timely filed days will be considered timely om the mailing date of this co				
Status							
1) Responsive to communication(s	s) filed on 12 April 2005	5.					
2a) This action is FINAL.							
, , ,	·						
Disposition of Claims	radice ander Ex parte	<i>quayro</i> , 1000 0.5. 11,	400 0.0. 210.				
	Claim(s) 1-3,5,6,8,9 and 11-34 is/are pending in the application.						
_	4a) Of the above claim(s) is/are withdrawn from consideration.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are allowed.						
<u> </u>	Claim(s) is/are rejected.						
	Claim(s) <u>1-3,5,6,8,9 and 11-32</u> is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
o) Claim(s) are subject to m	estriction and/or election	n requirement.					
Application Papers							
9)⊠ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>28 January 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a c a) All b) Some * c) None 1. Certified copies of the pri 2. Certified copies of the pri 3. Copies of the certified copies of the pri	of: ority documents have bority documents have book pies of the priority documents have book partional Bureau (PCT F	peen received. Deen received in Applic Deen receiments have been rece Rule 17.2(a)).	ation No ived in this National	Stage			
Attachment(s)							
1) Notice of References Cited (PTO-892)		4) Interview Summa	ary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Revi		Paper No(s)/Mail	Date. <u>5/6/05</u> .	2.450			
 Information Disclosure Statement(s) (PTO-14 Paper No(s)/Mail Date 	49 or PTO/SB/08)	5) Notice of Informa 6) Other:	al Patent Applicatión (PTC	J-152)			

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DETAILED ACTION

Application Status

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 14, 2005 has been entered.
- 2. Applicant's response to the Office Action mailed March 18, 2005 on March 14, 2005 and April 12, 2005 (Supplemental Amendment) is acknowledged.

Claim Disposition

- 3. Claims 1, 20-23, 26 and 29 have been amended. Claims 4, 7 and 10 have been canceled. Claims 1-3, 5-6, 8-9 and 11-34 are pending. Claims 1-3, 5-6, 8-9 and 11-32 are under examination.
- 4. This application is in condition for allowance except for the following formal matters:
- A) Non-elected claims 33 and 34 needs to be cancelled.

Claim Objection

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B) Claims 1 and 6 are objected to because of the following informalities:

Claim 1 is objected to for the recitation of "at least one control solution comprising at least one of the group". For clarity and precision of claim language it is suggested that the claim is amended to recite " at least one control solution selected from at least one of the group consisting of". In addition, the claim recites, "exceed threshold of assay to known amounts of antifreeze protein", it is suggested that the claim is amended to recite, " exceed threshold of assay of antifreeze protein".

For clarity/precision of claim language and consistency, it is suggested, "recombinant products and activators are deleted from the Markush listing in claim 6.

Correction of the above is required,

Specification

C) The specification is objected to because of the following informalities:

The Brief Description of the Drawing on page 19+ of the instant specification is objected to because Figures are listed the do not have the proper sequence notation or recite the notation with extraneous periods, see for example, Figs 1.8, 2.6a-c, 2.7, 2.8, 2.9, 2.10, 3.0, 3.1, 3.2, 3.3, 4.6a-b, 4.10a-b, 4.11a-b, 4.12 a-b, 4.13, 4.14, 4.16, 4.17, 4.18, 5.7, 5.8, 5.9, 5.10, 5.11, 5.12, 8.43 and 8.44. See for example page 20, FIG. 1.8, "SEQ. ID No.1". The proper sequence notation is "SEQ ID NO:".

The specification is objected to because on page 102, line 34 no period (.) appears at the end of the sentence. See "summer to winter conditions is observed as leftward shifts of the regression lines This".

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Correction of the above and compliance with the sequence rules is required.

5. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Conclusion

6. Claims 1-3, 5-6, 8-9 and 11-32 are free of the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hope A. Robinson whose telephone number is 571-272-0957. The examiner can normally be reached on Monday-Friday from 9:00 a.m. to 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon P. Weber, can be reached at (571) 272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hope A. Robinson, MS

Patent Examiner

JON WEBER

SUPERVISORY PATENT EXAMINER